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Cell Lines

**ATCC
Number:****CRL-1595****Price: \$270.00**[Order this item](#)**Designation:** C-4 II**Depositors:** N. Auersperg**Biosafety
Level:** 2**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** carcinoma; cervix**[Related Cell Culture Products](#)**

Comments:	This is one of two lines developed from this patient (see ATCC CRL 1594). The line contains human papillomavirus type 18 (HPV-18) DNA sequences, and expresses HPV-18 RNA.
DNA Profile (STR):	Amelogenin: X CSF1PO: 12 D13S317: 11,12 D16S539: 11 D5S818: 9,11 D7S820: 10,11 TH01: 9,9.3 TPOX: 10,11 vWA: 14
Isoenzymes:	G6PD, B
Age Stage:	41 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Waymouth's medium 752/1, 90%; fetal bovine serum, 10%
Subculturing:	Remove medium, add fresh 0.25% trypsin solution for 2 to 3 minutes, remove trypsin and let the culture sit at room temperature until the cells detach. Add fresh medium, aspirate and dispense into new flasks.
Split Ratio:	A subcultivation ratio of 1:4 to 1:10 is recommended
Fluid Renewal:	3 times per week
Biosafety:	Handle as potentially biohazardous material under at least Biosafety Level 2 containment.
References:	RF32946: J. Natl. Cancer Inst. 28: 605-627, 1962 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF36383: Auersperg N. Histogenetic behavior of tumors. I. Morphologic variation in vitro and in vivo of two related human carcinoma cell lines. J. Natl. Cancer Inst. 43: 151-173, 1969 PubMed: 69240553 RF36384: Auersperg N. Histogenetic behavior of tumors. II. Roles of cellular and environmental factors in the in vitro growth of carcinoma cells. J. Natl. Cancer Inst. 43: 175-190, 1969 PubMed: 69240555 RF36385: Auersperg N. Histogenetic behavior of tumors. 3. Possible relationships to patterns of glycolysis. J. Natl. Cancer Inst. 48: 1589-1596, 1972 PubMed: 72267789 RF36386: Lee HC and Auersperg N. Calcium in epithelial cell contraction. J. Cell Biol. 85: 325-336, 1980 PubMed: 80182389

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Cell Lines

**ATCC
Number:****HTB-111****Price: \$270.00**[Order this item](#)**Designation:** AN3 CA**Depositors:** C.J. Dawe**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** adenocarcinoma**[Related Cell Culture Products](#)**

Comments:	C.J. Dawe and associates derived this cell line from a metastatic lesion in the lymph node of a patient with endometrial carcinoma alerted to the condition by onset of the malignant disorder acanthosis nigricans.
Tumorigenic:	yes, in nude mice; produces undifferentiated malignant tumor; also at low frequency (22%) in the cheek pouch of cortisone treated hamsters
Isoenzymes:	PGM3, 1-2; PGM1, 1; ES-D, 1; AK-1, 1-2; GLO-1, 2; G6PD, B; Phenotype Frequency Product: 0.0054
Age Stage:	55 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Minimum essential medium Eagle with 2 mM L-glutamine and Earle's BSS adjusted to contain 1.5 g/L sodium bicarbonate, 0.1 mM non-essential amino acids, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:3 to 1:6 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2003 recommended serum 30-2020
References:	RF32949: J. Natl. Cancer Inst. 33: 441-456, 1964 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646

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Cell Lines

**ATCC
Number:****CRL-1976****Price: \$205.00**[Order this item](#)**Designation:** MES-SA**Depositors:** B.I. Sikic**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** fibroblast**Tissue:** uterine sarcoma; uterus**[Related Cell Culture Products](#)**

Comments:	<p>The MES-SA cell line was established from a surgical tumor specimen obtained at the time of hysterectomy. The tumor was described as a poorly differentiated uterine sarcoma.</p> <p>Initially, the cells were grown in soft agar, and later they were transferred to multiwell plates.</p> <p>The cells form tumors in nude mice and readily form colonies in soft agar.</p> <p>The nonepithelial origin of the cells was supported by ultrastructural studies and the absence of staining for mucin.</p> <p>The cells are sensitive to a number of chemotherapeutic agents including doxorubicin, dactinomycin, mitomycin C, taxol and bleomycin.</p> <p>They are resistant to vinblastine, dacarbazine, cisplatin, melphalan, vincristine, methotrexate and etoposide.</p> <p>The multiple drug resistant cell line MES-SA/Dx5 (ATCC CRL-1977) was established from MES-SA cells which were grown in the presence of doxorubicin.</p>
Tumorigenic:	yes, Tumors developed within 21 days at 100% frequency (5/5) in nude mice inoculated subcutaneously with 10(7) cells.
Karyotype:	modal number = 45; chromosomes 5, 6 and 7 are monosomic; there is a 5q - 6p translocation and one marker chromosome
Age Stage:	56 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: McCoy's 5a medium, 90%; fetal bovine serum, 10% (newborn calf serum may be substituted for fetal bovine serum)
Subculturing:	<p>Remove spent medium, add fresh EDTA solution (0.15 g disodium EDTA, 4.0 g NaCl, 0.28 g sodium bicarbonate, 0.5 g dextrose and 0.2 g KCl dissolved in 500 ml double distilled water).</p> <p>Allow the cells to sit at room temperature for a few minutes, and dislodge the cells by rapping the side of the flask sharply with the palm of your hand.</p> <p>Add fresh medium, aspirate and dispense into new flasks.</p>
Split Ratio:	A subcultivation ratio of 1:6 to 1:8 is recommended
Fluid Renewal:	2 to 3 times per week
Doubling Time:	22 to 24 hrs
References:	RF33454: Harker WG et al. Development and characterization of a human sarcoma cell line, MES-SA, sensitive to multiple drugs. Cancer Res. 43: 4943-4950, 1983 PubMed: 83284950

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Cell Lines

**ATCC
Number:****HTB-113****Price:****\$205.00**[Order this item](#)**Designation:** HEC-1-B**Depositors:** H. Kuramoto**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** adenocarcinoma; uterus; endometrium

Related Cell Culture Products

Comments:	This is a substrain of HEC-1-A (see ATCC HTB-112) isolated in 1968 by H. Kuramoto. Unlike HEC-1-A, this substrain exhibited a stationary growth period between the 135th and 190th days in culture and appeared on recovery to be flattened and more pavement patterned than the parent line. Furthermore, the predominant complement of chromosomes was double that observed for the parent line.
Tumorigenic:	yes, in nude mice; forms moderately well differentiated adenocarcinoma in nude mice consistent with endometrial carcinoma (grade II); also tumorigenic in steroid treated hamsters
Antigen Expression:	Blood Type B; Rh+
DNA Profile (STR):	Amelogenin: X CSF1PO: 10,12 D13S317: 11,16 D16S539: 11,12 D5S818: 11,13 D7S820: 9,11 TH01: 6,7 TPOX: 8,11

	vWA: 18
K ryotype:	diploid to tetraploid with large submetacentric marker
Is enzymes:	Me-2, 2; PGM3, 1-2; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 2; G6PD, B; Phenotype Frequency Product: 0.0029
Age Stage:	71 years
Gender:	female
Propagation:	ATCC medium: Minimum essential medium Eagle with 2 mM L-glutamine and Earle's BSS adjusted to contain 1.5 g/L sodium bicarbonate, 0.1 mM non-essential amino acids, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:2 to 1:6 is recommended
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2003 recommended serum 30-2020
References:	RF32888: Kuramoto H. Studies of the growth and cytogenetic properties of human endometrial adenocarcinoma in culture and its development into an established line. Acta Obstet. Gynaecol. Jpn. 19: 47-58, 1972 PubMed: 73087652 RF32969: Fogh J et al. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214, 1977 PubMed: 77097006 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33474: Presta M et al. Modulation of plasminogen activator activity in human endometrial adenocarcinoma cells by basic fibroblast growth factor and transforming growth factor beta. Cancer Res. 48: 6384-6389, 1988 PubMed: 89028282 RF33919: Kuramoto H et al. Establishment of a cell line of human endometrial adenocarcinoma in vitro. Am. J. Obstet. Gynecol. 114: 1012-1019, 1972 PubMed: 73046131 RF42166: St. Geme JW et al. Characterization of the genetic locus encoding Haemophilus influenzae type b surface fibrils. J. Bacteriol. 178: 6281-6287, 1996 PubMed: 97047989 RF42935: Schramm N et al. Vesicles containing Chlamydia trachomatis serovar L2 remain above pH 6 within HEC-1B cells. Infect. Immun. 64: 1208-1214, 1996 PubMed: 96178609

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Cell Lines

**ATCC
Number:****CRL-7396****Price:****\$370.00****Designation:** Hs 636.T [C4-I]**Biosafety
Level:**

1

Shipped: T25 flask**Medium &
Serum:**[See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** carcinoma; cervix

Related Cell Culture Products

Comments:	Part of the NBL Cell Line Collection. This cell line is neither produced nor fully characterized by ATCC. We do not guarantee that it will maintain a specific morphology, purity, or any other property upon passage. Please see the NBL Repository description.
Karyotype:	modal number = 44; range = 39 to 46
Age Stage:	41 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium, 90%; <u>fetal bovine serum</u> , 10%
References:	RF33433: Herz F et al. Chromosome analysis and alkaline phosphatase of C41, a cell line of human cervical origin distinct from HeLa. Cancer Res. 37: 3209-3213, 1977 PubMed: 77223526

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Cell Lines

ATCC **HTB-33** **Price:** **\$205.00**
Number:

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Designation: ME-180

Depositors: J.A. Sykes

Biosafety **2**
Level:

Shipped: Frozen

Medium & Serum: [See Propagation](#)

Growth Properties: adherent

Organism: *Homo sapiens* (human)

Morphology: epithelial

Tissue: epidermoid carcinoma; cervix; metastatic site: omentum

Related Cell Culture Products

Comments:	This line was derived from a highly invasive squamous cell carcinoma with irregular cell clusters and no significant keratinization. Desmosomal attachments were observed between cells in monolayer culture and cytoplasmic tonofilaments were noted. Contamination with <i>Mycoplasma arginini</i> was detected and eliminated in 1970. Growth of ME-180 cells is inhibited by tumor necrosis factor alpha (TNF alpha). The cells contain human papillomavirus (HPV) DNA with greater homology to HPV-39 than HPV-18.
Virus Susceptibility:	susceptibility of ME-180 to a wide range of viruses as compared with HeLa (ATCC CCL-2), was reported in J. Natl. Cancer Inst. 45:107-122, 1970
Tumorigenic:	yes, in nude mice; forms well differentiated epidermoid carcinoma (grade I)
Onc gene:	p53 +; pRB +
Antigen Expression:	Blood Type A; Rh+; HLA A1, A11, B5(+/-), B40
Kary type:	hyperdiploid to hypohexaploid with abnormalities including

	dicentrics, fragmentation and markers; unstable; (P63) hypotriploid with abnormalities including dicentrics and acrocentric fragments, large submetacentric and large subtelocentric markers
Isoenzymes:	PGM3, 1; PGM1, 1-2; ES-D, 1-2; AK-1, 1; GLO-1, 2; G6PD, B; Phenotype Frequency Product: 0.0098
Age Stage:	66 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: McCoy's 5a medium, 90%; fetal bovine serum, 10%
Subculturing:	Remove medium, rinse with fresh 0.25% trypsin solution, remove trypsin and let the culture sit at room temperature (or at 37C) until the cells detach (about 10 minutes). Add fresh medium, aspirate and dispense into new flasks. Subculture every 6 to 8 days.
Split Ratio:	A subcultivation ratio of 1:3 to 1:8 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Biosafety:	Handle as potentially biohazardous material under at least Biosafety Level 2 containment.
References:	RF31822: Sugarman BJ et al. Recombinant human tumor necrosis factor-alpha: effects on proliferation of normal and transformed cells in vitro. Science 230: 943-945, 1985 PubMed: 86044518 RF32953: Sykes JA et al. Some properties of a new epithelial cell line of human origin. J. Natl. Cancer Inst. 45: 107-122, 1970 PubMed: 70259134 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33401: Pater MM and Pater A. Human papillomavirus types 16 and 18 sequences in carcinoma cell lines of the cervix. Virology 145: 313-318, 1985 PubMed: 85274378 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF33620: Pollack MS et al. HLA-A, B, C and DR alloantigen expression on forty-six cultured human tumor cell lines. J. Natl. Cancer Inst. 66: 1003-1012, 1981 PubMed: 81218998 RF33631: Reuter S et al. Characterization of a novel human papillomavirus DNA in the cervical carcinoma cell line ME180. J. Virol. 65: 5564-5568, 1991 PubMed: 91374616 RF33712: Scheffner M et al. The state of the p53 and retinoblastoma genes in human cervical carcinoma cell lines. Proc. Natl. Acad. Sci. USA 88: 5523-5527, 1991 PubMed: 91288496 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646 RF42153: van Dijk MA et al. A functional assay in yeas for the human estrogen receptor displays wild-type and variant estrogen receptor messenger RNAs present in breast carcinoma. Cancer Res. 57: 3478-3485, 1997 PubMed: 97413630

RF42166: St. Geme JW et al. Characterization of the genetic locus encoding Haemophilus influenzae type b surface fibrils. J. Bacteriol. 178: 6281-6287, 1996 PubMed: 97047989

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Cell Lines

**ATCC
Number:****CRL-1550****Price: \$167.00**[Order this item](#)**Designation:** Ca Ski**Depositors:** R.A. Pattillo**Biosafety
Level:** 2**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** epidermoid carcinoma; cervix; metastatic site: cervix**Cellular
Products:** beta subunit of human chorionic gonadotropin (hCG); tumor associated antigen**[Related Cell Culture Products](#)**

Comments:	The line was established from cells from a metastasis in the small bowel mesentery. The cells are reported to contain an integrated human papillomavirus type 16 genome (HPV-16, about 600 copies per cell) as well as sequences related to HPV-18.
DNA Profile (STR):	Amelogenin: X CSF1PO: 10 D13S317: 8,12 D16S539: 11,12 D5S818: 13 D7S820: 8,11 TH01: 7 TPOX: 8 vWA: 17
Isoenzymes:	G6PD, B
Age Stage:	40 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10%
Subculturing:	Remove medium, add fresh 0.25% trypsin, 0.02% EDTA solution and incubate for 10 minutes at 37C. Add fresh medium, aspirate to disperse the cells and centrifuge at 800 rpm for 3 minutes. Add fresh medium to the pellet and dispense into new flasks.
Split Ratio:	A subcultivation ratio of 1:4 is recommended
Fluid Renewal:	Every 2 to 3 days
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2001 recommended serum 30-2020
Biosafety:	Handle as potentially biohazardous material under at least Biosafety Level 2 containment.
References:	RF10967: Pattillo RA et al. Tumor antigen and human chorionic gonadotropin in CaSki cells: a new epidermoid cervical cancer cell line. Science 196: 1456-1458, 1977 PubMed: 77195470 RF32998: Baker CC et al. Structural and transcriptional analysis of human papillomavirus type 16 sequences in cervical carcinoma cell lines. J. Virol. 61: 962-971, 1987 PubMed: 87141358 RF33401: Pater MM and Pater A. Human papillomavirus types 16 and 18 sequences in carcinoma cell lines of the cervix. Virology 145: 313-318, 1985 PubMed: 85274378 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646

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Cell Lines

**ATCC
Number:****HTB-115****Price: \$270.00**[Order this item](#)**Designation:** SK-UT-1B**Depositors:** G. Trempe**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** mesodermal tumor (mixed); consistent with leiomyosarcoma; uterus; endometrium**Required
Forms****[Related Cell Culture Products](#)**

Comments:	This is a substrain of SK-UT-1 (see ATCC HTB-114) which reportedly differs in morphology, karyology and in the type of tumor which develops on animal inoculation.
Tumorigenic:	yes, in nude mice; forms well differentiated adenocarcinoma consistent with endometrial carcinoma
Antigen Expression:	Blood type B; Rh+
Karyotype:	(P27) hypodiploid to diploid
Isoenzymes:	Me-2, 1-2; PGM3, 1; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 1-2; G6PD, B; Phenotype Frequency Product: 0.0590
Age Stage:	75 years; grade III
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Minimum essential medium (Eagle) in Earle's BSS with nonessential amino acids and sodium pyruvate, 90%; fetal bovine serum, 10%
Subculturing:	Remove medium, add fresh 0.25% trypsin solution for 1 minute, remove trypsin and let the culture sit at room temperature for 5 to 10 minutes. Add fresh medium, aspirate and dispense into new flasks. Subculture every 6 to 8 days.
Split Ratio:	A subcultivation ratio of 1:5 to 1:10 is recommended
Fluid Renewal:	Twice per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Required Forms:	The cells are distributed for research purposes only. The Memorial Sloan-Kettering Cancer Center releases the line subject to the following: 1.) The cells or their products must not be distributed to third parties. Commercial interests are the exclusive property of Memorial Sloan-Kettering Cancer Center. 2.) Any proposed commercial use of these cells must first be negotiated with The Director, Office of Industrial Affairs, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021; phone (212) 639-6181; FAX (212) 717-3439.
References:	RF32701: Chen TR. SK-UT-1B, a human tumorigenic diploid cell line. Cancer Genet. Cytogenet. 33: 77-81, 1988 PubMed: 88253201 RF32855: Chen TR. SK-UT-1B cell line has the diploid karyotype. A reply. Cancer Genet. Cytogenet. 48: 139-141, 1990 PubMed: 90322339 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034

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Cell Lines

**ATCC
Number:****CRL-2274****Price: \$270.00**[Order this item](#)**Designation:** MES-SA/MX2**Depositors:** W.G. Harker**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** fibroblast**Tissue:** uterine sarcoma; uterus**[Related Cell Culture Products](#)**

Comments:	MES-SA/MX2 is a mitoxantrone resistant derivative of the human uterine sarcoma cell line MES-SA (see ATCC CRL-1976). The line was selected and subcloned in 1988 for resistance to mitoxantrone, an anthracenedione antitumor agent. These cells were cloned by limiting dilution in soft agar, propagated and tested for sensitivity to mitoxantrone. The clone, designated MES-SA/MX2, was approximately 975 fold less sensitive to mitoxantrone than the parental cells. The cells display features of both classic multidrug resistance (MDR), P-glycoprotein overexpression and atypical MDR, altered topoisomerase II catalytic activity.
DNA Profile (STR):	Amelogenin: X CSF1PO: 11 D13S317: 13 D16S539: 11,12 D5S818: 13 D7S820: 7,11 TH01: 6 TPOX: 8,12 vWA: 18
Age Stage:	56 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: A 1:1 mixture of Waymouth's MB 752/1 medium and McCoy's 5a medium, 90%; fetal bovine serum, 10%
Subculturing:	These cells grow as a mixture of floating and adherent cells. Remove the medium with the floating cells, and recover the cells by centrifugation. Rinse the adherent cells with fresh 0.25% trypsin, 0.03% EDTA solution, add an additional 1 to 2 ml of trypsin solution, and let the culture sit at room temperature (or at 37C) until the cells detach. Add fresh medium, aspirate, combine with the floating cells recovered above and dispense into new flasks.
Split Ratio:	A subcultivation ratio of 1:4 to 1:6 is recommended
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	Culture medium, 95%; DMSO, 5%
References:	RF33454: Harker WG et al. Development and characterization of a human sarcoma cell line, MES-SA, sensitive to multiple drugs. Cancer Res. 43: 4943-4950, 1983 PubMed: 83284950 RF33464: Harker WG and Sikic BI. Multidrug (pleiotropic) resistance in doxorubicin-selected variants of the human sarcoma cell line MES-SA. Cancer Res. 45: 4091-4096, 1985 PubMed: 85282280

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Cell Lines

**ATCC
Number:****HTB-114****Price: \$270.00**[Order this item](#)**Designation:** SK-UT-1**Depositors:** G. Trempe; L.J. Old**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** mesodermal tumor (mixed); consistent with leiomyosarcoma; uterus**Required
Forms****[Related Cell Culture Products](#)**

Tumorigenic:	yes, in nude mice; forms spindle cell sarcoma
Antigen Expression:	Blood Type B; Rh+
Karyotype:	(P8) hypodiploid to hyperdiploid
Is enzymes:	Me-2, 1-2; PGM3, 1; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 1-2; G6PD, B; Phenotype Frequency Product: 0.0590
Age Stage:	75 years; grade III
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Minimum essential medium (Eagle) in Earle's BSS with nonessential amino acids and sodium pyruvate, 90%; <u>fetal bovine serum</u> , 10%
Subculturing:	Remove medium, add fresh 0.25% trypsin solution for 1 minute, remove trypsin and let the culture sit at room temperature for 5 to 10 minutes. Add fresh medium, aspirate and dispense into new flasks. Subculture every 6 to 8 days.
Split Ratio:	A subcultivation ratio of 1:2 is recommended
Fluid Renewal:	Twice per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Required Forms:	The cells are distributed for research purposes only. The Memorial Sloan-Kettering Cancer Center releases the line subject to the following: 1.) The cells or their products must not be distributed to third parties. Commercial interests are the exclusive property of Memorial Sloan-Kettering Cancer Center. 2.) Any proposed commercial use of these cells must first be negotiated with The Director, Office of Industrial Affairs, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021; phone (212) 639-6181; FAX (212) 717-3439.
References:	RF32326: Fogh, J., ed., Human tumor cells in vitro. New York: Plenum Press; 1975:pp. 115-159 RF32969: Fogh J et al. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214, 1977 PubMed: 77097006 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034

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Cell Lines

**ATCC
Number:****CRL-7920****Price: \$370.00**[Order this item](#)**Designation:** DoTc2 4510**Biosafety
Level:** 1**Shipped:** T25 flask**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** carcinoma; cervix**[Related Cell Culture Products](#)**

Comments:	Part of the NBL Cell Line Collection. This cell line is neither produced nor fully characterized by ATCC. We do not guarantee that it will maintain a specific morphology, purity, or any other property upon passage. Please see the NBL Repository description.
Karyotype:	modal number = 62; range = 57 to 75
Isoenzymes:	G6PD, B
Gender:	female
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90%; <u>fetal bovine serum</u> , 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:2 to 1:3 is recommended
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	culture medium 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2002 recommended serum 30-2020

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Cell Lines

**ATCC
Number:****CRL-1622****Price: \$205.00**[Order this item](#)**Designation:** KLE**Depositors:** G.R. Richardson**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Tissue:** adenocarcinoma; uterus; endometrium**[Related Cell Culture Products](#)**

Comments:	Electron microscopy of tumors formed in nude mice shows microvilli and junctional complexes, and nucleolar channel systems are present that are similar to those seen in normal endometrium under progestational stimulation. The tumors do not form glands.
Tumorigenic:	yes, Tumors developed within 21 days at 100% frequency (5/5) in nude mice inoculated subcutaneously with 10(7) cells.
Antigen Expression:	blood type O; Rh+
DNA Profile (STR):	Amelogenin: X CSF1PO: 13,14 D13S317: 12 D16S539: 11,12 D5S818: 9,12 D7S820: 11,12 TH01: 6,7 TPOX: 8,11 vWA: 16
Age Stage:	64 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: A 1:1 mixture of Dulbecco's modified Eagle's medium and Ham's F12 medium. -- Dulbecco's modified Eagle's medium with 4.0 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose and 1.0 mM sodium pyruvate, 45%; Ham's F12 medium with 1.0 mM L-glutamine adjusted to contain 1.17 g/L sodium bicarbonate, 45%; <u>fetal bovine serum</u> , 10%. Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:2 to 1:3 is recommended
Fluid Renewal:	Twice per week
References:	RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646

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Cell Lines

**ATCC
Number:****CRL-1594****Price: \$270.00**[Order this item](#)**Designation:** C-4I**Depositors:** N. Auersperg**Biosafety
Level:** 2**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** carcinoma; cervix**[Related Cell Culture Products](#)**

Comments:	This is one of two lines developed from this patient (see ATCC CRL 1595). The line contains human papillomavirus type 18 (HPV-18) DNA sequences, and expresses HPV-18 RNA.
Tumorigenic:	yes, forms tumors in nude mice
Isoenzymes:	G6PD, B
Age Stage:	41 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Waymouth's medium 752/1, 90%; fetal bovine serum, 10%
Subculturing:	Remove medium, add fresh 0.25% trypsin solution for 2 to 3 minutes, remove trypsin and let the culture sit at room temperature until cells detach. Add fresh medium, aspirate and dispense into new flasks. To maintain differentiation use the following procedure. Remove medium, add 0.12% trypsin in Ca-Mg free Hanks' BSS. Score the cell sheet with a pasteur pipette and incubate at room temperature. After 10 to 30 minutes suspend the cells in the trypsin using a bent pasteur pipette to detach the cells mechanically if necessary and to break up the cell sheet. Centrifuge, resuspend cells in fresh medium and dispense into new flasks.
Split Ratio:	A subcultivation ratio of 1:4 to 1:10 is recommended
Fluid Renewal:	3 times per week
Biosafety:	Handle as potentially biohazardous material under at least Biosafety Level 2 containment.
References:	RF32946: J. Natl. Cancer Inst. 28: 605-627, 1962 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33433: Herz F et al. Chromosome analysis and alkaline phosphatase of C41, a cell line of human cervical origin distinct from HeLa. Cancer Res. 37: 3209-3213, 1977 PubMed: 77223526 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF36383: Auersperg N. Histogenetic behavior of tumors. I. Morphologic variation in vitro and in vivo of two related human carcinoma cell lines. J. Natl. Cancer Inst. 43: 151-173, 1969 PubMed: 69240553 RF36384: Auersperg N. Histogenetic behavior of tumors. II. Roles of cellular and environmental factors in the in vitro growth of carcinoma cells. J. Natl. Cancer Inst. 43: 175-190, 1969 PubMed: 69240555 RF36385: Auersperg N. Histogenetic behavior of tumors. 3. Possible relationships to patterns of glycolysis. J. Natl. Cancer Inst. 48: 1589-1596, 1972 PubMed: 72267789

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Cell Lines

**ATCC
Number:****CRL-7850****Price: \$370.00**[Order this item](#)**Designation:** Hs 588.T**Biosafety
Level:** 1**Shipped:** T25 flask**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Tissue:** adenocarcinoma; cervix**[Related Cell Culture Products](#)**

Comments:	Part of the NBL Cell Line Collection. This cell line is neither produced nor fully characterized by ATCC. We do not guarantee that it will maintain a specific morphology, purity, or any other property upon passage. Please see the NBL Repository description.
Karyotype:	modal number = 46; range = 43 to 46
Isoenzymes:	G6PD, B
Age Stage:	29 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Dulbecco's modified Eagle's medium with 4 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate and 4.5 g/L glucose, 90%; <u>fetal bovine serum</u> , 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:2 is recommended
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	culture medium 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2002 recommended serum 30-2020

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Cell Lines

**ATCC
Number:****CRL-10302****Price:****\$270.00**[Order this item](#)**Designation:** SW756**Depositors:** Univ. Texas System,
Board of Regents**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** squamous cell carcinoma; cervix

This material is cited in a U.S. and/or other Patent and may not be used to infringe the patent claims.

[Related Cell Culture Products](#)

Comments:	The SW756 cell line was initiated by A. Leibovitz at the Scott and White Clinic, Temple, Texas in 1974 from biopsy material from a poorly differentiated invasive squamous carcinoma of the uterine cervix. The patient had not received chemotherapy or radiation prior to the biopsy.
Virus Susceptibility:	influenzavirus PR8/A/34
Tumorigenic:	yes; forms tumors in nude mice
Antigen Expression:	HLA A1, A24, B8, B44, Cw2, Cx, DR6Y; Le3; Le4; Le5
Karyotype:	modal number = 76; range = 60 to 96
Isoenzymes:	G6PD, B; GLO-1, 1-2
Age Stage:	46 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Leibovitz's L-15 medium, 90%; <u>fetal bovine serum</u> , 10% Temperature: 37C
Subculturing:	Remove medium, rinse with fresh 0.25% trypsin solution, remove trypsin and let the culture sit at room temperature until the cells detach. Add fresh medium, aspirate and dispense into new flasks.
Split Ratio:	A subcultivation ratio of 1:3 to 1:6 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	<u>fetal bovine serum</u> , 95%; DMSO, 5%
References:	RF32512: Freedman RS et al. Monoclonal antibody to a human MDR1 multidrug resistance gene product, and uses. U.S. Pat. 5,434,076 dated July 18, 1995 RF33091: Freedman RS et al. Characterization of a cell line (SW756) derived from a human squamous carcinoma of the uterine cervix. In Vitro 18: 719-726, 1982 PubMed: 83029418

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Cell Lines**ATCC
Number:****HTB-35****Price: \$167.00**[Order this item](#)**Designation:** SiHa**Depositors:** Y. Ito**Biosafety
Level:** 2**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** squamous cell carcinoma; cervix**Related Cell Culture Products**

Comments:	This line was established from fragments of a primary tissue sample obtained after surgery from a Japanese patient. Electron microscopic observations revealed presence of typical desmosomes at the cell junctions and an abundance of tonofilaments in the cytoplasm. Mycoplasma contamination was detected and eliminated in 1975. The line is reported to contain an integrated human papillomavirus type 16 genome (HPV-16, 1 to 2 copies per cell).
Tumorigenic:	yes, in nude mice; forms poorly differentiated epidermoid carcinoma (grade III)
Oncogene:	p53 +; pRB +
DNA Profile (STR):	Amelogenin: X CSF1PO: 12 D13S317: 11 D16S539: 12 D5S818: 9 D7S820: 10 TH01: 6,9 TPOX: 8 vWA: 14,17

Isoenzymes:	PGM3, 1; PGM1, 1; ES-D, 2; AK-1, 1; Me-2, 1; GLO-1, 2; G6PD, B; Phenotype Frequency Product: 0.0003
Age Stage:	55 years
Gender:	female
Ethnicity:	Asian
Propagation:	ATCC medium: Minimum essential medium Eagle with 2 mM L-glutamine and Earle's BSS adjusted to contain 1.5 g/L sodium bicarbonate, 0.1 mM non-essential amino acids, and 1.0 mM sodium pyruvate, 90%; <u>fetal bovine serum</u> , 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:3 to 1:8 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2003 recommended serum 30-2020
Biosafety:	Handle as potentially biohazardous material under at least Biosafety Level 2 containment.
References:	RF32998: Baker CC et al. Structural and transcriptional analysis of human papillomavirus type 16 sequences in cervical carcinoma cell lines. J. Virol. 61: 962-971, 1987 PubMed: 87141358 RF33401: Pater MM and Pater A. Human papillomavirus types 16 and 18 sequences in carcinoma cell lines of the cervix. Virology 145: 313-318, 1985 PubMed: 85274378 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF33589: Friedl F et al. Studies on a new human cell line (SiHa) derived from carcinoma of uterus. I. Its establishment and morphology. Proc. Soc. Exp. Biol. Med. 135: 543-545, 1970 PubMed: 71034143 RF33712: Scheffner M et al. The state of the p53 and retinoblastoma genes in human cervical carcinoma cell lines. Proc. Natl. Acad. Sci. USA 88: 5523-5527, 1991 PubMed: 91288496 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646 RF42139: Olive PL and Banath JP. Multicell spheroid response to drugs predicted with the comet assay. Cancer Res. 57: 5528-5533, 1997 PubMed: 98069852

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Cell Lines

**ATCC
Number:****HTB-31****Price: \$167.00**[Order this item](#)**Designation:** C-33 A**Depositors:** N. Auersperg**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** carcinoma; cervix**[Related Cell Culture Products](#)**

Comments:	This line is one of a series of cell lines (see also ATCC CRL-1594 and ATCC CRL-1595) derived by N. Auersperg from cervical cancer biopsies. The line exhibited a hypodiploid karyotype initially and an epithelial morphology. Karyological instability was observed with continued passage. The retinoblastoma protein (pRB) is present but abnormal in size. P53 expression is elevated and there is a point mutation at codon 273 resulting in a Arg -> Cys substitution. The line is negative for human papillomavirus DNA and RNA.
Tumorigenic:	yes, in nude mice; forms undifferentiated carcinoma
Oncogene:	p53 +; pRB +
Antigen Expression:	Blood Type A; Rh+
Karyotype:	hypodiploid to hypotetraploid
Isoenzymes:	Me-2, 2; PGM3, 1; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 2; G6PD, B; Phenotype Frequency Product: 0.0039
Age Stage:	66 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Minimum essential medium Eagle with 2 mM L-glutamine and Earle's BSS adjusted to contain 1.5 g/L sodium bicarbonate, 0.1 mM non-essential amino acids, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:3 to 1:8 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2003 recommended serum 30-2020
References:	RF32947: J. Natl. Cancer Inst. 32: 135-148, 1964 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF33712: Scheffner M et al. The state of the p53 and retinoblastoma genes in human cervical carcinoma cell lines. Proc. Natl. Acad. Sci. USA 88: 5523-5527, 1991 PubMed: 91288496 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646 RF42362: Kovelman R et al. Enhanced transcriptional activation by E2 proteins from the oncogenic human papillomaviruses. J. Virol. 70: 7549-7560, 1996 PubMed: 97048033

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Cell Lines

**ATCC
Number:****HTB-32****Price:****\$205.00**[Order this item](#)**Designation:** HT-3**Depositors:** J. Fogh**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:**[See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** carcinoma; cervix; metastatic site: lymph node**Required
Forms**

Related Cell Culture Products

Comments:	Ultrastructural features include many microvilli, prominent nucleoli, sparse RER, well developed Golgi. No virus particles were observed. The retinoblastoma protein (pRB) is present but abnormal in size. P53 expression is elevated and there is a point mutation at codon 245 resulting in a Gly -> Val substitution. The line is negative for human papillomavirus DNA and RNA. A mycoplasma contamination was detected and eliminated in 1965.
Tumorigenic:	yes, in nude mice; forms poorly differentiated epidermoid carcinoma (grade III); also forms tumors in steroid treated hamsters
Oncogene:	p53 +; pRB +
Antigen Expression:	Blood Type A; Rh+
DNA Profile (STR):	Amelogenin: X CSF1PO: 12

	D13S317: 12 D16S539: 12,13 D5S818: 10,13 D7S820: 8,10 TH01: 6,7 TPOX: 8 vWA: 15,18
Karyotype:	(P147) hypotriploid to hypertriploid (+A, +B, +C, +D, +F, -E). Modal number = 65 to 66 with abnormalities including dicentrics, acrocentric fragments, minutes, translocations, rings, secondary constrictions, breaks, pulverizations and large subtelocentric and large submetacentric markers.
Isoenzymes:	PGM3, 1; PGM1, 1; ES-D, 1; Me-2, 1; AK-1, 1; GLO-1, 1-2; G6PD, B; Phenotype Frequency Product: 0.0511
Age Stage:	58 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: McCoy's 5a medium, 85%; <u>fetal bovine serum</u> , 15%
Subculturing:	Remove medium, rinse with fresh 0.25% trypsin solution, remove trypsin and let the culture sit at room temperature (or at 37C) until the cells detach (about 10 minutes). Add fresh medium, aspirate and dispense into new flasks. Subculture every 6 to 8 days.
Split Ratio:	A subcultivation ratio of 1:2 to 1:5 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Required Forms:	The cells are distributed for research purposes only. The Memorial Sloan-Kettering Cancer Center releases the line subject to the following: 1.) The cells or their products must not be distributed to third parties. Commercial interests are the exclusive property of Memorial Sloan-Kettering Cancer Center. 2.) Any proposed commercial use of these cells must first be negotiated with The Director, Office of Industrial Affairs, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021; phone (212) 639-6181; FAX (212) 717-3439.
References:	RF32326: Fogh, J., ed., Human tumor cells in vitro. New York: Plenum Press; 1975:pp. 115-159 RF32969: Fogh J et al. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214, 1977 PubMed: 77097006 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33401: Pater MM and Pater A. Human papillomavirus types 16 and 18 sequences in carcinoma cell lines of the cervix. Virology 145: 313-318, 1985 PubMed: 85274378 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF33712: Scheffner M et al. The state of the p53 and

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Cell Lines

**ATCC
Number:****HTB-34****Price: \$270.00**[Order this item](#)**Designation:** MS751**Depositors:** J.A. Sykes**Biosafety
Level:** 2**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** epithelial**Tissue:** epidermoid carcinoma; cervix; metastatic site: lymph node

Related Cell Culture Products

Comments:	This line was derived by J. Sykes (see also ATCC HTB-33) in 1974. MS751 cells have been reported to contain human papilloma virus 18 (HPV-18) sequences. [RF33401] [RF33578] More recently, it has been shown that MS751 cells contain a partial HPV-45 genome, and that HPV-45 sequences from the E6/E7 region are expressed as poly(A)+ RNA. [RF78035]
Tumorigenic:	yes, in nude mice; forms poorly differentiated epidermoid carcinoma (grade III) [RF32972]
Antigen Expression:	Blood Type AB; Rh+
DNA Profile (STR):	Amelogenin: X CSF1PO: 11 D13S317: 12 D16S539: 11 D5S818: 12 D7S820: 9,11 TH01: 6 TPOX: 8 vWA: 16
Karyotype:	(P32) hypodiploid and hypertriploid to hypotetraploid with

	abnormalities including dicentrics, gaps, fragmentations and newly formed large subtelocentric and very small submetacentric markers
Isoenzymes:	Me-2, 1; PGM3, 1-2; PGM1, 1-2; ES-D, 1; AK-1, 1; GLO-1, 1-2; G6PD, B; Phenotype Frequency Product: 0.0230
Age Stage:	47 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: Minimum essential medium (Eagle) in Hanks' BSS with nonessential amino acids and sodium pyruvate, 90%; <u>fetal bovine serum</u> , 10% Temperature: 37C
Subculturing:	Remove medium, add fresh 0.25% trypsin solution for 2 to 3 minutes, remove trypsin and let the culture sit at room temperature for 5 to 10 minutes. Add fresh medium, aspirate and dispense into new flasks. Subculture every 6 to 8 days.
Split Ratio:	A subcultivation ratio of 1:2 to 1:5 is recommended
Fluid Renewal:	2 to 3 times per week
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Biosafety:	Handle as potentially biohazardous material under at least Biosafety Level 2 containment.
References:	RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33401: Pater MM and Pater A. Human papillomavirus types 16 and 18 sequences in carcinoma cell lines of the cervix. Virology 145: 313-318, 1985 PubMed: 85274378 RF33578: Yee C et al. Presence and expression of human papillomavirus sequences in human cervical carcinoma cell lines. Am. J. Pathol. 119: 361-366, 1985 PubMed: 85248811 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646 RF78035: Geisbill J et al. Detection and characterization of human papillomavirus type 45 DNA in the cervical carcinoma cell line MS751. J. Gen. Virol. 78: 655-658, 1997 PubMed: 9049418

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Cell Lines

**ATCC
Number:****CRL-1977****Price: \$205.00**[Order this item](#)**Designation:** MES-SA/Dx5**Depositors:** B.I. Sikic**Biosafety
Level:** 1**Shipped:** Frozen**Medium &
Serum:** [See Propagation](#)**Growth
Properties:** adherent**Organism:** *Homo sapiens* (human)**Morphology:** fibroblast**Tissue:** uterine sarcoma; uterus; multiple drug resistant**[Related Cell Culture Products](#)**

Comments:	<p>The multiple drug resistant cell line MES-SA/Dx5 was established from MES-SA cells (ATCC CRL-1976) which were grown in the presence of increasing concentrations of doxorubicin.</p> <p>The cells exhibit a marked cross resistance to a number of chemotherapeutic agents including vinblastine, taxol, colchicine, vincristine, etoposide, dactinomycin, mitoxantrone and daunorubicin.</p> <p>They exhibit moderate cross resistance to mitomycin C and melphalan.</p> <p>Resistance to bleomycin, cisplatin, carmustine, 5-fluorouracil or methotrexate was not observed.</p> <p>The cells express high levels of <i>mdr-1</i> mRNA and P-glycoprotein.</p>
Tumorigenic:	yes, Tumors developed within 21 days at 100% frequency (5/5) in nude mice inoculated subcutaneously with 10(7) cells.
DNA Profile (STR):	<p>Amelogenin: X</p> <p>CSF1PO: 11</p> <p>D13S317: 13</p> <p>D16S539: 11,12</p> <p>D5S818: 13</p> <p>D7S820: 7,11</p> <p>TH01: 6</p> <p>TPOX: 8,11</p> <p>vWA: 18</p>
Karyotype:	modal number = 47; the karyotype is 47XX, 12q+, 22q-, t(5q,6p), -3, -4, -7, +t(3q?,7q), Mar 1, + Mar 2, + Mar 3; the two additional marker chromosomes indicate clonal selection during drug selection
Age Stage:	56 years
Gender:	female
Ethnicity:	Caucasian
Propagation:	ATCC medium: McCoy's 5a medium, 90%; <u>fetal bovine serum</u> , 10% (newborn calf serum may be substituted for <u>fetal bovine serum</u>)
Subculturing:	<p>Remove spent medium, add fresh EDTA solution (0.15 g disodium EDTA, 4.0 g NaCl, 0.28 g sodium bicarbonate, 0.5 g dextrose and 0.2 g KCl dissolved in 500 ml double distilled water).</p> <p>Allow the cells to sit at room temperature for a few minutes, and dislodge the cells by rapping the side of the flask sharply with the palm of your hand.</p> <p>Add fresh medium, aspirate and dispense into new flasks.</p>
Split Ratio:	A subcultivation ratio of 1:6 to 1:8 is recommended
Fluid Renewal:	2 to 3 times per week
Doubling Time:	30 hrs
References:	<p>RF33454: Harker WG et al. Development and characterization of a human sarcoma cell line, MES-SA, sensitive to multiple drugs. Cancer Res. 43: 4943-4950, 1983 PubMed: 83284950</p> <p>RF33464: Harker WG and Sikic BI. Multidrug (pleiotropic) resistance in doxorubicin-selected variants of the human sarcoma cell line MES-SA. Cancer Res. 45: 4091-4096, 1985 PubMed: 85282280</p>

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Cell Lines

ATCC Number:	HTB-112	Price:	\$167.00
	Order this item		
Designation:	HEC-1-A	Depositors:	H. Kuramoto
<u>Biosafety Level:</u>	1	Shipped:	Frozen
Medium & Serum:	See Propagation	Growth Properties:	adherent
Organism:	<i>Homo sapiens</i> (human)	Morphology:	epithelial
Tissue:	adenocarcinoma; uterus; endometrium		
Cellular Products:	platelet activating factor (PAF)		

Related Cell Culture Products

Comments:	This line and a substrain HEC-1-B (ATCC HTB-113) were isolated in 1968 by H. Kuramoto and associates from a patient with stage IA endometrial cancer. PAF induces increased expression of c-fos.
Receptors Expressed:	platelet activating factor (PAF)
Tumorigenic:	yes, in nude mice; forms moderately well differentiated adenocarcinoma consistent with endometrial carcinoma (grade II); also forms a typical papillary adenoma in the cheek pouch of cortisone treated hamsters
Oncogene:	c-fos +
Antigen Expression:	Blood Type B; Rh+
Karyotype:	hypodiploid to hyperdiploid, modal number = 47 with large metacentric marker
Isoenzymes:	Me-2, 1; PGM3, 1-2; PGM1, 1; ES-D, 1; AK-1, 1; GLO-1, 2; G6PD,

	B; Phenotype Frequency Product: 0.0241
Age Stage:	71 years
Gender:	female
Propagation:	ATCC medium: McCoy's 5a medium, 90%; fetal bovine serum, 10% Temperature: 37C
Subculturing:	Remove medium, and rinse with 0.25% trypsin, 0.03% EDTA solution. Remove the solution and add an additional 1 to 2 ml of trypsin-EDTA solution. Allow the flask to sit at room temperature (or at 37C) until the cells detach. Add fresh culture medium, aspirate and dispense into new culture flasks.
Split Ratio:	A subcultivation ratio of 1:4 to 1:8 is recommended
Fluid Renewal:	Every 2 to 3 days
Freeze Medium:	Culture medium, 95%; DMSO, 5%
Related Products:	Recommended medium (without the additional supplements or serum described under ATCC Medium) -- ATCC 30-2007 recommended serum 30-2020
References:	RF32888: Kuramoto H. Studies of the growth and cytogenetic properties of human endometrial adenocarcinoma in culture and its development into an established line. Acta Obstet. Gynaecol. Jpn. 19: 47-58, 1972 PubMed: 73087652 RF32969: Fogh J et al. Absence of HeLa cell contamination in 169 cell lines derived from human tumors. J. Natl. Cancer Inst. 58: 209-214, 1977 PubMed: 77097006 RF32972: Fogh J et al. One hundred and twenty-seven cultured human tumor cell lines producing tumors in nude mice. J. Natl. Cancer Inst. 59: 221-226, 1977 PubMed: 77210034 RF33474: Presta M et al. Modulation of plasminogen activator activity in human endometrial adenocarcinoma cells by basic fibroblast growth factor and transforming growth factor beta. Cancer Res. 48: 6384-6389, 1988 PubMed: 89028282 RF33516: Maggi M et al. Platelet-activating factor mediates an autocrine proliferative loop in the endometrial adenocarcinoma cell line HEC-1A. Cancer Res. 54: 4777-4784, 1994 PubMed: 94340613 RF33919: Kuramoto H et al. Establishment of a cell line of human endometrial adenocarcinoma in vitro. Am. J. Obstet. Gynecol. 114: 1012-1019, 1972 PubMed: 73046131 RF39961: Hendricks DT et al. FHIT gene expression in human ovarian, endometrial, and cervical cancer cell lines. Cancer Res. 57: 2112-2115, 1997 PubMed: 97330646

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combinations of independent prognostic factors indicates that the interaction of factors may be more predictive of outcome than any one factor separately.

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- Review, Multicase

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RC 95-2

L3 ANSWER 16 OF 20 BIOTECHDS COPYRIGHT 2002 DERWENT INFO AND ISI

ACCESSION NUMBER: 1984-02791 BIOTECHDS

TITLE: Explant and monolayer culture of human bronchial epithelium
in serum-free medium;
clonal growth requirements; characterization (conference
abstract)

AUTHOR: Siegfried J M; Smith M P; Nesnow S

CORPORATE SOURCE: Northrop-Serv.

LOCATION: Northrop Services, Inc.,

SOURCE: J.Cell Biol.; (1983) 97, 5, Pt.2, 332a

CODEN: JCLBA3

DOCUMENT TYPE: Journal

LANGUAGE: English

AN 1984-02791 BIOTECHDS

AB Bronchial tissue was obtained from surgical resection and immediate
autopsy cases. **Medium 199** was optimal for producing
outgrowths from explants and Ham's **F12** was effective for
monolayer culture and clonal growth. Insulin, epidermal growth factor,
and hydrocortisone were essential for growth. Cholera toxin, selenium,
and bovine hypothalamus extract enhanced growth. Outgrowths of
epithelium could be repeatedly produced from the same tissue piece.
Coating dishes with fibronectin and collagen gave superior results with
explant cultures compared to plastic alone. Clonal growth of cells
derived from outgrowths was achieved on a plastic substrata with or
without coating with fibronectin and collagen. The concentration of
each medium additive was optimized by monitoring clonal growth. Cultures
could be passaged up to 6 times in the optimized medium. Acid

phosphatase

(EC-3.1.3.2), succinic-dehydrogenase (EC-1.3.99.1),

lactate-dehydrogenase

(EC-1.1.1.27), and nonspecific esterase activities were demonstrated

histochemically in monolayer cultures. (0 ref)

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Tumor Cell Lines

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COLORECTAL CARCINOMA
DUCTAL CARCINOMA
EPIDERMOID CARCINOMA
EWING'S SARCOMA
FIBROSARCOMA
GASTRIC CARCINOMA
GIANT CELL SARCOMA
HEPATOCELLULAR CARCINOMA
HODGKIN'S DISEASE
LYMPHOMA
MALIGNANT MELANOMA
NEUROBLASTOMA
OSTEOCARCINOMA
PLASMACYTOMA
PRIMARY DUCTAL CARCINOMA
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TRANSITIONAL CELL CARCINOMA
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Tumor Cell Lines

Listed Alphabetically by Cancer Type

ATCC No	Name	Cancer Type	Tissue Source
CRL-2327	HCC1428	adenocarcinoma	breast
CRL-7850	Hs 588.T	adenocarcinoma	cervix
CCL-249	NCI-H548	adenocarcinoma	colon
CRL-5972	SNU-C1	adenocarcinoma	colon
CRL-7207	Hs 241.T	adenocarcinoma	colon
CRL-7213	Hs 255.T	adenocarcinoma	colon
CRL-7435	Hs 698.T	adenocarcinoma	colon
HTB-78	SW 626	adenocarcinoma	colon; ovary metastasis
CRL-7928	HuTu 80	adenocarcinoma	duodenum
HTB-40	HuTu 80	adenocarcinoma	duodenum
HTB-111	AN3 CA	adenocarcinoma	endometrial cancer; lymph node metastasis
CRL-7911	A704	adenocarcinoma	kidney
HTB-45	A-704	adenocarcinoma	kidney
HTB-49	SW 839	adenocarcinoma	kidney; clear cell
CRL-5892	NCI-H1755	adenocarcinoma	liver
HTB-52	SK-HEP-1	adenocarcinoma	liver; ascites
CRL-5944	NCI-H2405	adenocarcinoma	lung
CRL-5844	NCI-H838	adenocarcinoma	lung
CRL-5866	NCI-H1373	adenocarcinoma	lung
CRL-5868	NCI-H1395	adenocarcinoma	lung
CRL-5918	NCI-H2073	adenocarcinoma	lung
CRL-5942	NCI-H2347	adenocarcinoma	lung
CRL-7380	Hs 618.T	adenocarcinoma	lung
CRL-5877	NCI-H1573	adenocarcinoma	lung
CRL-5907	NCI-H1944	adenocarcinoma	lung
HTB-57	SK-LU-1	adenocarcinoma	lung
CRL-5850	NCI-H920	adenocarcinoma	lung; lymph node metastasis
CRL-5852	NCI-H969	adenocarcinoma	lung; pleural effusion
CRL-5865	NCI-H1355	adenocarcinoma	lung; pleural effusion
CRL-5872	NCI-H1437	adenocarcinoma	lung; pleural effusion
CRL-5876	NCI-H1568	adenocarcinoma	lung; lymph node metastasis
CRL-5881	NCI-H1623	adenocarcinoma	lung; lymph node metastasis
CRL-5882	NCI-H1648	adenocarcinoma	lung; lymph node metastasis
CRL-5887	NCI-H1693	adenocarcinoma	lung; lymph node metastasis
CRL-5897	NCI-H1819	adenocarcinoma	lung; lymph node metastasis
CRL-5909	NCI-H1993	adenocarcinoma	lung; lymph node metastasis
CRL-5911	NCI-H2009	adenocarcinoma	lung; lymph node metastasis
CRL-5912	NCI-H2023	adenocarcinoma	lung; lymph node metastasis
CRL-5922	NCI-H2087	adenocarcinoma	lung; lymph node metastasis
CRL-5936	NCI-H2250	adenocarcinoma	lung; lymph node metastasis
CRL-5895	NCI-H1792	adenocarcinoma	lung; pleural effusion
CRL-5985	NCI-H2122	adenocarcinoma	lung; pleural effusion
HTB-179	NCI-H676B	adenocarcinoma	lung; pleural effusion
HTB-55	Calu-3	adenocarcinoma	lung; pleural effusion
CRL-5889	NCI-H1703	adenocarcinoma	lung; squamous cell
CRL-2351	AU565	adenocarcinoma	mammary gland; breast
CRL-7222	Hs 274.T	adenocarcinoma	mammary gland; breast
CRL-7226	Hs 280.T	adenocarcinoma	mammary gland; breast

ATCC No	Name	Cancer Type	Tissue Source
CRL-7227	Hs 281.T	adenocarcinoma	mammary gland; breast
CRL-7245	Hs 343.T	adenocarcinoma	mammary gland; breast
CRL-7253	Hs 362.T	adenocarcinoma	mammary gland; breast
CRL-7477	Hs 739.T	adenocarcinoma	mammary gland; breast
CRL-7480	Hs 741.T	adenocarcinoma	mammary gland; breast
CRL-7647	Hs 902.T	adenocarcinoma	mammary gland; breast
HTB-132	MDA-MB-468	adenocarcinoma	mammary gland; breast
HTB-27	MDA-MB-361	adenocarcinoma	mammary gland; breast
HTB-30	SK-BR-3	adenocarcinoma	mammary gland; breast; malignant pleural effusion
HTB-128	MDA-MB-415	adenocarcinoma	mammary gland; breast; pleural effusion
HTB-130	MDA-MB-436	adenocarcinoma	mammary gland; breast; pleural effusion
HTB-21	CAMA-1	adenocarcinoma	mammary gland; breast; pleural effusion
HTB-22	MCF7	adenocarcinoma	mammary gland; breast; pleural effusion
HTB-26	MDA-MB-231	adenocarcinoma	mammary gland; breast; pleural effusion
HTB-151	Hs 696	adenocarcinoma	metastasis to bone (sacrum)
HTB-147	Hs 700T	adenocarcinoma	metastasis to the pelvis
CRL-10303	MDAH 2774	adenocarcinoma	ovary
HTB-161	NIH:OVCAR-3	adenocarcinoma	ovary
HTB-75	Caov-3	adenocarcinoma	ovary
HTB-76	Caov-4	adenocarcinoma	ovary
HTB-77	SK-OV-3	adenocarcinoma	ovary; ascites
CRL-1687	BxPC-3	adenocarcinoma	pancreas
CRL-1997	HPAF-II	adenocarcinoma	pancreas
CRL-2119	HPAC	adenocarcinoma	pancreas
CRL-2172	SW 1990	adenocarcinoma	pancreas
HTB-79	Capan-1	adenocarcinoma	pancreas
HTB-80	Capan-2	adenocarcinoma	pancreas
CRL-1682	AsPC-1	adenocarcinoma	pancreas; ascites
CRL-1435	PC-3	adenocarcinoma	prostate
CRL-2422	MDA PCa 2b	adenocarcinoma	prostate
CCL-235	SW837	adenocarcinoma	rectum
CRL-1622	KLE	adenocarcinoma	uterus; endometrium
HTB-112	HEC-1-A	adenocarcinoma	uterus; endometrium
HTB-113	HEC-1-B	adenocarcinoma	uterus; endometrium
CRL-7758	TE 206.T	adenocarcinoma	unknown
CRL-5883	NCI-H1650	adenocarcinoma; bronchoalveolar carcinoma	lung; pleural effusion
CRL-5885	NCI-H1666	adenocarcinoma; bronchoalveolar carcinoma	lung; pleural effusion
CRL-5894	NCI-H1781	adenocarcinoma; bronchoalveolar carcinoma	lung; pleural effusion
CRL-2220	CA-HPV-10	adenocarcinoma; human papillomavirus 18 (HPV-18) transfected	prostate
CRL-5800	NCI-H23	adenocarcinoma; non-small cell lung cancer	lung
CRL-5810	NCI-H522	adenocarcinoma; non-small cell lung cancer	lung
CRL-5870	NCI-H1435	adenocarcinoma; non-small cell lung cancer	lung
CRL-5875	NCI-H1563	adenocarcinoma; non-small cell lung cancer	lung
CRL-5884	NCI-H1651	adenocarcinoma; non-small cell lung cancer	lung
CRL-5891	NCI-H1734	adenocarcinoma; non-small cell lung cancer	lung
CRL-5896	NCI-H1793	adenocarcinoma; non-small cell lung cancer	lung
CRL-5899	NCI-H1838	adenocarcinoma; non-small cell lung cancer	lung
CRL-5908	NCI-H1975	adenocarcinoma; non-small cell lung cancer	lung
CRL-5914	NCI-H2030	adenocarcinoma; non-small cell lung cancer	lung
CRL-5921	NCI-H2085	adenocarcinoma; non-small cell lung cancer	lung
CRL-5935	NCI-H2228	adenocarcinoma; non-small cell lung cancer	lung
CRL-5939	NCI-H2291	adenocarcinoma; non-small cell lung cancer	lung
CRL-5941	NCI-H2342	adenocarcinoma; non-small cell lung cancer	lung
CRL-5834	NCI-H647	adenosquamous carcinoma	lung; pleural effusion; mixed
HTB-178	NCI-H596	adenosquamous carcinoma	lung
CRL-10296	NCI-H295	adrenocortical carcinoma	adrenal gland, cortex
CRL-2170	SW 1573	alveolar cell carcinoma	lung
CRL-1579	C32TG	amelanotic melanoma	skin

ATCC No	Name	Cancer Type	Tissue Source
CRL-1585	C32	amelanotic melanoma	skin
HTB-137	Hs 695T	amelanotic melanoma	metastasis to lymph node
CRL-9267	W5-6	anaplastic carcinoma	unknown, probably lung
HTB-56	Calu-6	anaplastic carcinoma	unknown, probably lung
CRL-2461	SV7tert	angiomyolipoma; immortalized with SV40 large T antigen and human telomerase	kidney
CRL-1718	CCF-STTG1	astrocytoma	brain
HTB-12	SW 1088	astrocytoma	brain
HTB-13	SW 1783	astrocytoma	brain
CRL-7762	TE 354.T	basal cell carcinoma	skin
CRL-7646	Hs 900.T	benign osteoid osteoma	bone
CRL-7649	Hs 903.T	benign osteoid osteoma	bone
CRL-7672	Hs 919.T	benign osteoid osteoma	bone
CRL-2081	MSTO-211H	biphasic mesothelioma	metastasis to lung
CRL-7588	Hs 853.T	bladder carcinoma	metastasis to lung or bronchus
CRL-2294	BCP-1	body cavity based lymphoma	peripheral blood; B lymphoblast
CRL-5807	NCI-H358	bronchioalveolar carcinoma; non-small cell lung cancer	lung; bronchiole; alveolus
CRL-5835	NCI-H650	bronchioalveolar carcinoma; non-small cell lung cancer	lung
CRL-7194	Hs 229.T	bronchogenic adenocarcinoma	lung
HTB-168	ChaGo-K-1	bronchogenic carcinoma	lung; bronchus
CRL-1647	ST486	Burkitt's lymphoma	ascites; B lymphocyte
HTB-62	P3HR-1	Burkitt's lymphoma	ascites; B lymphocyte
CCL-85	EB-3	Burkitt's lymphoma	B lymphocyte
CCL-86	Raji	Burkitt's lymphoma	B lymphocyte
CCL-87	Jiyoye	Burkitt's lymphoma	B lymphocyte
CRL-1432	NAMALWA	Burkitt's lymphoma	B lymphocyte
CRL-1484	HS-Sultan	Burkitt's lymphoma	B lymphocyte
CRL-1648	CA46	Burkitt's lymphoma	B lymphocyte
CRL-2392	GA-10	Burkitt's lymphoma	B lymphocyte
CRL-2393	GA-10 (Clone 4)	Burkitt's lymphoma	B lymphocyte
CRL-2394	GA-10 (Clone 20)	Burkitt's lymphoma	B lymphocyte
HTB-61	EB2	Burkitt's lymphoma	B lymphocyte
CRL-7933	P-3J	Burkitt's lymphoma	lymph node; B lymphoblast
CRL-7936	Raji	Burkitt's lymphoma	lymph node; B lymphoblast
CRL-10237	2F7	Burkitt's lymphoma	lymph node; B lymphocyte
CCL-213	Daudi	Burkitt's lymphoma	peripheral blood; B lymphoblast
CCL-214	NC-37	Burkitt's lymphoma	peripheral blood; B lymphoblast
HTB-60	EB1	Burkitt's lymphoma	upper maxilla; B lymphocyte
CRL-1596	Ramos (RA 1)	Burkitt's lymphoma (American)	B lymphocyte
CRL-1923	Ramos.2G6.4C10	Burkitt's lymphoma (American)	B lymphocyte
CRL-2128	NCI-H295R	carcinoma	adrenal gland, cortex
CRL-1594	C-4I	carcinoma	cervix
CRL-1595	C-4 II	carcinoma	cervix
CRL-7396	Hs 636.T	carcinoma	cervix
CRL-7914	C4II	carcinoma	cervix
CRL-7920	DoTc2 4510	carcinoma	cervix
HTB-31	C-33 A	carcinoma	cervix
HTB-32	HT-3	carcinoma	cervix
CRL-7908	A498	carcinoma	kidney
HTB-44	A-498	carcinoma	kidney
CCL-185	A549	carcinoma	lung
HTB-53	A-427	carcinoma	lung
CRL-5867	NCI-H1385	carcinoma	lymph node; squamous cell
CRL-7316	Hs 540.T	carcinoma	mammary gland; breast
CRL-7336	Hs 566(B).T	carcinoma	mammary gland; breast
CRL-7365	Hs 605.T	carcinoma	mammary gland; breast
CRL-7368	Hs 606	carcinoma	mammary gland; breast
CRL-7721	MB 157	carcinoma	mammary gland; breast; pleural effusion

ATCC No	Name	Cancer Type	Tissue Source
CRL-1420	MIA PaCa-2	carcinoma	pancreas
HTB-134	Hs 766T	carcinoma	pancreas
CCL-138	Detroit 562	carcinoma	pharynx
CRL-10995	LNCaP-FGC	carcinoma	prostate
CRL-1740	LNCaP clone FGC	carcinoma	prostate
CRL-2505	22Rv1	carcinoma	prostate
HTB-81	DU 145	carcinoma	prostate
CRL-5833	NCI-H630	carcinoma	rectum
CRL-7870	Hs 740.T	carcinoma	stomach
CRL-1803	TT	carcinoma	thyroid, medulla
CRL-1472	HT-1376	carcinoma	urinary bladder
CRL-1473	HT-1197	carcinoma	urinary bladder
CRL-7150	Hs 195.T	carcinoma	urinary bladder
CRL-7193	Hs 228.T	carcinoma	urinary bladder
CRL-7833	Hs 172.T	carcinoma	urinary bladder
CRL-7926	HT 1197.T	carcinoma	urinary bladder
CRL-7927	HT 1376.T	carcinoma	urinary bladder
HTB-9	5637	carcinoma	urinary bladder
CRL-1671	RL95-2	carcinoma	uterus; endometrium
HTB-118	SW 962	carcinoma	vulva
CCL-257	NCI-H1688	carcinoma; classic small cell lung cancer	lung
CRL-5804	NCI-H187	carcinoma; classic small cell lung cancer	lung
CRL-5808	NCI-H378	carcinoma; classic small cell lung cancer	lung
CRL-5817	NCI-H889	carcinoma; classic small cell lung cancer	lung
CRL-5821	NCI-H60	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5825	NCI-H220	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5828	NCI-H250	carcinoma; classic small cell lung cancer	lung
CRL-5832	NCI-N592	carcinoma; classic small cell lung cancer	lung
CRL-5836	NCI-H711	carcinoma; classic small cell lung cancer	lung
CRL-5837	NCI-H719	carcinoma; classic small cell lung cancer	lung
CRL-5840	NCI-H740	carcinoma; classic small cell lung cancer	lung
CRL-5841	NCI-H748	carcinoma; classic small cell lung cancer	lung
CRL-5842	NCI-H774	carcinoma; classic small cell lung cancer	lung; soft tissue
CRL-5846	NCI-H847	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5849	NCI-H865	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5854	NCI-H1059	carcinoma; classic small cell lung cancer	lung
CRL-5855	NCI-H1092	carcinoma; classic small cell lung cancer	lung
CRL-5856	NCI-H1105	carcinoma; classic small cell lung cancer	lung
CRL-5861	NCI-H1284	carcinoma; classic small cell lung cancer	lung
CRL-5862	NCI-H1304	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5869	NCI-H1417	carcinoma; classic small cell lung cancer	lung
CRL-5871	NCI-H1436	carcinoma; classic small cell lung cancer	lung
CRL-5886	NCI-H1672	carcinoma; classic small cell lung cancer	lung
CRL-5888	NCI-H1694	carcinoma; classic small cell lung cancer	lung
CRL-5898	NCI-H1836	carcinoma; classic small cell lung cancer	lung
CRL-5902	NCI-H1876	carcinoma; classic small cell lung cancer	lung
CRL-5906	NCI-H1930	carcinoma; classic small cell lung cancer	lung
CRL-5910	NCI-H1994	carcinoma; classic small cell lung cancer	lung
CRL-5916	NCI-H2059	carcinoma; classic small cell lung cancer	lung
CRL-5920	NCI-H2081	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5979	NCI-H1339	carcinoma; classic small cell lung cancer	lung; pleural effusion
CRL-5824	NCI-H211	carcinoma; small cell lung cancer	bone marrow
CRL-2049	DMS-79	carcinoma; small cell lung cancer	lung
CRL-2062	DMS-53	carcinoma; small cell lung cancer	lung
CRL-2064	DMS-153	carcinoma; small cell lung cancer	lung
CRL-2066	DMS-114	carcinoma; small cell lung cancer	lung
CRL-2177	SW 1271	carcinoma; small cell lung cancer	lung
CRL-2195	SHP-77	carcinoma; small cell lung cancer	lung; large cell, variant
CRL-5853	NCI-H1048	carcinoma; small cell lung cancer	lung; pleural effusion
CRL-5858	NCI-H1184	carcinoma; small cell lung cancer	lung; lymph node metastasis

ATCC No	Name	Cancer Type	Tissue Source
CRL-5859	NCI-H1238	carcinoma; small cell lung cancer	lung
CRL-5864	NCI-H1341	carcinoma; small cell lung cancer	lung
CRL-5874	NCI-H1522	carcinoma; small cell lung cancer	lung; pleural effusion
CRL-5879	NCI-H1618	carcinoma; small cell lung cancer	lung
CRL-5901	NCI-H1870	carcinoma; small cell lung cancer	lung
CRL-5903	NCI-H1882	carcinoma; small cell lung cancer	lung
CRL-5905	NCI-H1926	carcinoma; small cell lung cancer	lung; lymph node metastasis
CRL-5913	NCI-H2029	carcinoma; small cell lung cancer	lung; lymph node metastasis
CRL-5927	NCI-H2141	carcinoma; small cell lung cancer	lung; lymph node metastasis
CRL-5929	NCI-H2171	carcinoma; small cell lung cancer	lung; pleural effusion
CRL-5931	NCI-H2195	carcinoma; small cell lung cancer	lung
CRL-5932	NCI-H2196	carcinoma; small cell lung cancer	lung
CRL-5933	NCI-H2198	carcinoma; small cell lung cancer	lung; lymph node metastasis
CRL-5934	NCI-H2227	carcinoma; small cell lung cancer	lung
CRL-5940	NCI-H2330	carcinoma; small cell lung cancer	lung; lymph node metastasis
CRL-5976	NCI-H64	carcinoma; small cell lung cancer	lung
CRL-5978	NCI-H735	carcinoma; small cell lung cancer	lung
CRL-5982	NCI-H1963	carcinoma; small cell lung cancer	lung
CRL-5983	NCI-H2107	carcinoma; small cell lung cancer	lung
CRL-5984	NCI-H2108	carcinoma; small cell lung cancer	lung
HTB-119	NCI-H69	carcinoma; small cell lung cancer	lung
HTB-120	NCI-H128	carcinoma; small cell lung cancer	lung; pleural effusion
HTB-171	NCI-H446	carcinoma; small cell lung cancer	lung; pleural effusion
HTB-172	NCI-H209	carcinoma; small cell lung cancer	lung
HTB-173	NCI-H146	carcinoma; small cell lung cancer	lung; pleural effusion
HTB-175	NCI-H82	carcinoma; small cell lung cancer	lung; pleural effusion
HTB-180	NCI-H345	carcinoma; small cell lung cancer	lung
CRL-5813	NCI-H660	carcinoma; small cell lung cancer; extrapulmonary origin	prostate; neuroendocrine
HTB-184	NCI-H510A	carcinoma; small cell lung cancer; extrapulmonary origin	lung
CRL-11351	H69AR	carcinoma; small cell lung cancer; multidrug resistant	lung
CRL-5809	NCI-N417	carcinoma; variant small cell lung cancer	lung
CRL-5811	NCI-H526	carcinoma; variant small cell lung cancer	lung
CRL-5823	NCI-H196	carcinoma; variant small cell lung cancer	lung
CRL-5831	NCI-H524	carcinoma; variant small cell lung cancer	lung; lymph node metastasis
CRL-5845	NCI-H841	carcinoma; variant small cell lung cancer	lung; lymph node metastasis
HTB-177	NCI-H460	carcinoma; large cell lung cancer	lung; pleural effusion
HTB-183	NCI-H661	carcinoma; large cell lung cancer	lung
CCL-256	NCI-H2126	carcinoma; non-small cell lung cancer	lung
CRL-5803	NCI-H1299	carcinoma; non-small cell lung cancer	lung; large cell; neuroendocrine
CRL-5816	NCI-H810	carcinoma; non-small cell lung cancer	lung; large cell; neuroendocrine
CRL-5818	NCI-H1155	carcinoma; non-small cell lung cancer	lung; large cell; neuroendocrine
CRL-7891	Hs 819.T	chondrosarcoma	bone
HTB-94	SW 1353	chondrosarcoma	bone
CCL-98	BeWo	choriocarcinoma	placenta
CRL-7394	Hs 630.T	choriocarcinoma	placenta
HTB-144	JAR	choriocarcinoma	placenta
HTB-36	JEG-3	choriocarcinoma	placenta
CRL-1978	ES-2	clear cell carcinoma	ovary
HTB-46	Caki-1	clear cell carcinoma	kidney
HTB-47	Caki-2	clear cell carcinoma	kidney
CCL-251	NCI-H716	colorectal adenocarcinoma	cecum
CCL-252	NCI-H747	colorectal adenocarcinoma	cecum
CCL-253	NCI-H508	colorectal adenocarcinoma	cecum
CCL-254	NCI-H498	colorectal adenocarcinoma	cecum
CCL-218	WiDr	colorectal adenocarcinoma	colon
CCL-220	COLO 320DM	colorectal adenocarcinoma	colon
CCL-220.1	COLO 320HSR	colorectal adenocarcinoma	colon

ATCC No	Name	Cancer Type	Tissue Source
CCL-221	DLD-1	colorectal adenocarcinoma	colon
CCL-222	COLO 205	colorectal adenocarcinoma	colon
CCL-224	COLO 201	colorectal adenocarcinoma	colon
CCL-225	HCT-15	colorectal adenocarcinoma	colon
CCL-227	SW620	colorectal adenocarcinoma	colon
CCL-228	SW480	colorectal adenocarcinoma	colon
CCL-229	LoVo	colorectal adenocarcinoma	colon
CCL-230	SW403	colorectal adenocarcinoma	colon
CCL-231	SW48	colorectal adenocarcinoma	colon
CCL-233	SW1116	colorectal adenocarcinoma	colon
CCL-237	SW948	colorectal adenocarcinoma	colon
CCL-238	SW1417	colorectal adenocarcinoma	colon
CCL-255	LS123	colorectal adenocarcinoma	colon
CL-187	LS180	colorectal adenocarcinoma	colon
CL-188	LS174T	colorectal adenocarcinoma	colon
CRL-2102	C2BBel	colorectal adenocarcinoma	colon
CRL-7214	Hs 257.T	colorectal adenocarcinoma	colon
CRL-7351	Hs 586.T	colorectal adenocarcinoma	colon
CRL-7352	Hs 587.Int	colorectal adenocarcinoma	colon
HTB-37	Caco-2	colorectal adenocarcinoma	colon
HTB-38	HT-29	colorectal adenocarcinoma	colon
HTB-39	SK-CO-1	colorectal adenocarcinoma	colon
CCL-234	SW1463	colorectal adenocarcinoma	rectum
CRL-7159	Hs 200.T	colorectal adenocarcinoma	rectum
CRL-7184	Hs 219.T	colorectal adenocarcinoma	rectum
CRL-7168	Hs 207.T	colorectal adenocarcinoma	sigmoid colon
CCL-250	SNU-C2B	colorectal carcinoma	cecum
CCL-250.1	SNU-C2A	colorectal carcinoma	cecum
CRL-2134	LS513	colorectal carcinoma	cecum
CRL-2158	LS1034	colorectal carcinoma	cecum
CRL-2159	LS411N	colorectal carcinoma	cecum
CCL-247	HCT 116	colorectal carcinoma	colon
CCL-248	T84	colorectal carcinoma	colon
CRL-7399	Hs 674.T/cc	colorectal carcinoma	rectum
CRL-7456	Hs 722.T	colorectal carcinoma	rectum
CRL-7273	Hs 398.T	condyloma acuminatum	skin; genital wart
CRL-2105	HH	cutaneous T cell lymphoma	peripheral blood; T lymphocyte
CRL-8294	MJ	cutaneous T cell lymphoma; mycosis fungoides	peripheral blood; T lymphocyte
CRL-7252	Hs 357.T	dermatofibrosarcoma	skin
CRL-7692	Hs 941.T	dermatofibrosarcoma	skin
CRL-7043	Hs 63.T	dermatofibrosarcoma protuberans	skin
CRL-7233	Hs 295.T	dermatofibrosarcoma protuberans	skin
HTB-186	Daoy	desmoplastic cerebellar medulloblastoma	brain; cerebellum
CRL-2260	HT	diffuse mixed lymphoma	ascites; B lymphoblast
CRL-2558	PL45	ductal adenocarcinoma	pancreas
CRL-1918	CFPAC-1	ductal adenocarcinoma; cystic fibrosis	pancreas
CRL-12420	GI-101A	ductal adenocarcinoma; infiltrating	mammary gland; breast; duct
CRL-1500	ZR-75-1	ductal carcinoma	mammary gland; breast; ascites; epithelial
CRL-1504	ZR-75-30	ductal carcinoma	mammary gland; breast; ascites; epithelial
CRL-1897	UACC-812	ductal carcinoma	mammary gland; breast
CRL-2320	HCC1008	ductal carcinoma	mammary gland; breast
CRL-2338	HCC1954	ductal carcinoma	mammary gland; breast; duct
CRL-7345	Hs 574.T	ductal carcinoma	mammary gland; breast; duct
HTB-121	BT-483	ductal carcinoma	mammary gland; breast
HTB-129	MDA-MB-435S	ductal carcinoma	mammary gland; breast; pleural effusion
HTB-133	T-47D	ductal carcinoma	mammary gland; breast; pleural effusion
HTB-20	BT-474	ductal carcinoma	mammary gland; breast
HTB-25	MDA-MB-175-VII	ductal carcinoma	mammary gland; breast; pleural effusion
CRL-1837	SU.86.86	ductal carcinoma	pancreas

ATCC No	Name	Cancer Type	Tissue Source
HTB-104	Cates-1B	embryonal carcinoma	testis
CRL-7802	Hs 454.T	eosinophilic granuloma	bone
CRL-1550	Ca Ski	epidermoid carcinoma	cervix
CRL-7932	ME180	epidermoid carcinoma	cervix
HTB-33	ME-180	epidermoid carcinoma	cervix
HTB-34	MS751	epidermoid carcinoma	cervix
CRL-1555	A-431	epidermoid carcinoma	epidermis
CRL-7902	A253	epidermoid carcinoma	epidermis
CCL-199	HLF-a	epidermoid carcinoma	lung
HTB-54	Calu-1	epidermoid carcinoma	lung
CRL-7228	Hs 284.Pe	epidermoid carcinoma	lung; pleural effusion
CRL-7905	A388	epidermoid carcinoma	metastasis to lymph node
CRL-2592	A431NS	epidermoid carcinoma	skin, epidermis
HTB-41	A-253	epidermoid carcinoma	submaxillary salivary gland
CRL-1469	PANC-1	epithelioid carcinoma	pancreas; duct
CRL-2138	VA-ES-BJ	epithelioid carcinoma	metastasis to bone marrow
CRL-7556	Hs 822.T	Ewing's sarcoma	bone
CRL-7598	Hs 863.T	Ewing's sarcoma	bone
HTB-166	RD-ES	Ewing's sarcoma	bone
CRL-7744	TE 115.T	fibromatosis	connective and soft tissue
CRL-7951	HT 1080.T	fibrosarcoma	bone
CRL-7062	Hs 93.T	fibrosarcoma	connective and soft tissue
CRL-7287	Hs 414.T	fibrosarcoma	connective tissue
CRL-7508	Hs 778(A).T	fibrosarcoma	connective tissue
CRL-7509	Hs 778(B).T	fibrosarcoma	connective tissue
CRL-7664	Hs 913(B).T	fibrosarcoma	connective tissue
CRL-7665	Hs 913(C).T	fibrosarcoma	connective tissue
CRL-7824	Hs 15.T	fibrosarcoma	connective tissue
HTB-152	Hs 913T	fibrosarcoma	metastasis to lung
CRL-7666	Hs 913(D).T	fibrosarcoma	metastasis to lung or bronchus
CRL-7668	Hs 913(F).T	fibrosarcoma	metastasis to lung or bronchus
CCL-121	HT-1080	fibrosarcoma	unknown
CRL-7604	Hs 868.T	fibrosarcoma	unknown
HTB-91	SW 684	fibrosarcoma	unknown
TIB-223	GCT	fibrous histiocyoma	metastasis to lung
CRL-7773	TE 615.T	ganglioneuroblastoma	brain
CRL-1739	AGS	gastric adenocarcinoma	stomach
CRL-1863	RF-48	gastric adenocarcinoma	stomach
CRL-1864	RF-1	gastric adenocarcinoma	stomach
CRL-5822	NCI-N87	gastric carcinoma	stomach
HTB-135	Hs 746T	gastric carcinoma	stomach
CRL-5971	NCI-SNU-1	gastric carcinoma	stomach; ascites
CRL-5973	NCI-SNU-5	gastric carcinoma	stomach; ascites
CRL-5974	NCI-SNU-16	gastric carcinoma	stomach; ascites
HTB-103	KATO III	gastric carcinoma	stomach; pleural effusion
CRL-7447	Hs 706.T	giant cell sarcoma	bone
CRL-7473	Hs 737.T	giant cell sarcoma	bone
CRL-7554	Hs 821.T	giant cell sarcoma	bone
CRL-7579	Hs 846.T	giant cell sarcoma	bone
CRL-7617	Hs 883.T	giant cell sarcoma	bone
CRL-7081	Hs 127.T	giant cell sarcoma	connective tissue
CRL-7547	Hs 814.T	giant cell sarcoma	vertebral column
CRL-1620	A172	glioblastoma	brain
CRL-2020	DBTRG-05MG	glioblastoma	brain; glial cell
CRL-7899	A172	glioblastoma	brain; glial cell
HTB-16	U-138 MG	glioblastoma	brain
CRL-1690	T98G	glioblastoma multiforme	brain
HTB-14	U-87 MG	glioblastoma; astrocytoma	brain
HTB-15	U-118 MG	glioblastoma; astrocytoma	brain

ATCC No	Name	Cancer Type	Tissue Source
HTB-138	Hs 683	glioma	brain
CRL-10741	C3A	hepatoblastoma	liver
CRL-11997	HEP G2/2.2.1	hepatoblastoma; transfected with a CYP7 minigene/luciferase construct	liver
CRL-2233	SNU-398	hepatocellular carcinoma	liver
CRL-2234	SNU-449	hepatocellular carcinoma	liver
CRL-2235	SNU-182	hepatocellular carcinoma	liver
CRL-2236	SNU-475	hepatocellular carcinoma	liver
HB-8064	Hep 3B2.1-7 (Hep 3B)	hepatocellular carcinoma	liver
HB-8065	Hep G2	hepatocellular carcinoma	liver
CRL-8024	PLC/PRF/5	hepatoma	liver; Alexander cells
CRL-1532	182-PF SK	hereditary adenomatosis	skin
CRL-1533	166-ME SK	hereditary adenomatosis (Gardner's variant)	skin
CRL-1593.2	U-937	histiocytic lymphoma	macrophage; histiocyte
CRL-2367	TUR	histiocytic lymphoma; transfected U-937 cells	histiocyte
CRL-7593	Hs 856.T	histiocytoma	connective tissue
CCL-113	RPMI 6666	Hodgkin's disease; Hodgkin's lymphoma	unknown
CRL-7264	Hs 388.T	Hodgkin's disease; Hodgkin's lymphoma	lymph node
CRL-7362	Hs 604.T	Hodgkin's disease; Hodgkin's lymphoma	lymph node
CRL-7488	Hs 751.T	Hodgkin's disease; Hodgkin's lymphoma	lymph node
HTB-146	Hs 445	Hodgkin's disease; Hodgkin's lymphoma	lymph node
CRL-7779	TO 175.T	Hodgkin's disease; Hodgkin's lymphoma	skin
CRL-7373	Hs 611.T	Hodgkin's disease; Hodgkin's lymphoma	spleen
CRL-7378	Hs 616.T	Hodgkin's disease; Hodgkin's lymphoma	thymus
CRL-2175	SW 156	hypernephroma	kidney
CCL-244	HCT-8 (HRT-18)	ileocecocolorectal adenocarcinoma	colon
CRL-7428	Hs 692(A).T	intestinal carcinoma	metastasis to lymph node
CRL-7630	Hs 892.T	keratoacanthoma	skin
CRL-7629	Hs 891.T	kidney carcinoma	metastasis to lymph node
CRL-5878	NCI-H1581	large cell adenocarcinoma	lung
CRL-2262	295R	large cell immunoblastic lymphoma	pleural effusion; lymphoblast
CRL-2289	DB	large cell lymphoma	B lymphoblast
CRL-5923	NCI-H2106	large cell neuroendocrine carcinoma	lung metastasis to lymph node
CRL-7822	Hs 5.T	leiomyosarcoma	connective tissue
HTB-88	SK-LMS-1	leiomyosarcoma	vulva
CRL-10423	JM1	leukemia; lymphoma	pre-B lymphoblast
HTB-92	SW 872	liposarcoma	unknown
CRL-7306	Hs 505.T	lymphocytic lymphoma	lymph node
CRL-7313	Hs 518.T	lymphocytic lymphoma	spleen
CRL-7818	Hs 491.T	lymphocytic lymphoma	lymph node
CRL-7218	Hs 268.T	lymphogranulomatosis	lymph node
CRL-2230	BC-1	lymphoma	B lymphocyte
CRL-2231	BC-2	lymphoma	B lymphocyte
CRL-2277	BC-3	lymphoma	B lymphocyte
CRL-8119	1A2	lymphoma	B lymphocyte
HTB-142	Hs 602	lymphoma	cervical lymph node
CRL-11622	RH9/CB	lymphoma	cutaneous T lymphocyte
CRL-12043	RH9	lymphoma	cutaneous T lymphocyte
HTB-176	H9	lymphoma	cutaneous T lymphocyte
TIB-161	HuT 78	lymphoma	cutaneous T lymphocyte
CRL-7235	Hs 313.T	lymphoma	lymph node
CRL-7507	Hs 777.T	lymphoma	lymph node
CRL-11213	RH9/MS-C	lymphoma	T lymphocyte
CRL-8543	H9/HTLV-IIIB	lymphoma	T lymphocyte
CRL-7797	HT 1417	lymphoma	unknown
TIB-162	HuT 102	lymphoma; mycosis fungoides	cutaneous T lymphocyte
CRL-7755	TE 175.T	lymphosarcoma	lymph node
CRL-7641	Hs 898.T	malignant acanthocytosis; keratoacanthoma	skin
HTB-105	Tera-1	malignant embryonal carcinoma	embryo
HTB-106	Tera-2	malignant embryonal carcinoma	embryo

ATCC No	Name	Cancer Type	Tissue Source
CRL-2365	M059K	malignant glioblastoma; glioma	brain; glial cell
CRL-2366	M059J	malignant glioblastoma; glioma	brain; glial cell
CRL-7684	Hs 934.T	malignant melanoma	connective tissue
CRL-7685	Hs 935.T	malignant melanoma	connective tissue
HTB-64	Malme-3M	malignant melanoma	metastasis to lung
HTB-63	HT-144	malignant melanoma	metastasis to subcutaneous tissue
CRL-1424	G-361	malignant melanoma	skin
CRL-1619	A-375	malignant melanoma	skin
CRL-1872	A375.S2	malignant melanoma	skin
CRL-1974	COLO 829	malignant melanoma	skin
CRL-7691	Hs 940.T	malignant melanoma	skin
HTB-65	MeWo	malignant melanoma	skin
HTB-66	RPMI-7951	malignant melanoma	skin
HTB-67	SK-MEL-1	malignant melanoma	skin
HTB-68	SK-MEL-2	malignant melanoma	skin
HTB-69	SK-MEL-3	malignant melanoma	skin
HTB-70	SK-MEL-5	malignant melanoma	skin
HTB-71	SK-MEL-24	malignant melanoma	skin
HTB-72	SK-MEL-28	malignant melanoma	skin
HTB-73	SK-MEL-31	malignant melanoma	skin
CRL-2407	NK-92	malignant non-Hodgkin's lymphoma	natural killer cell; NK cell
CRL-11732	OV-90	malignant papillary serous adenocarcinoma	ovary
CRL-1973	NTERA-2 cl.D1	malignant pluripotent embryonal carcinoma	testis
CRL-8805	TE671 subline No. 2	medulloblastoma	brain; cerebellum
HTB-185	D283 Med	medulloblastoma	brain; cerebellum
HTB-187	D341 Med	medulloblastoma	brain; cerebellum
CRL-7724	SH-4	melanoma	lung, pleural effusion
CRL-7426	Hs 688(B).T	melanoma	metastasis to lymph node
CRL-7568	Hs 834.T	melanoma	metastasis to lymph node
CRL-11147	A2058	melanoma	skin
CRL-1675	WM-115	melanoma	skin
CRL-1676	WM-266-4	melanoma	skin
CRL-2500	A7	melanoma	skin
CRL-7299	Hs 432.T	melanoma	skin
CRL-7360	Hs 600.T	melanoma	skin
CRL-7425	Hs 688(A).T	melanoma	skin
CRL-7572	Hs 839.T	melanoma	skin
CRL-7585	Hs 852.T	melanoma	skin
CRL-7637	Hs 895.T	melanoma	skin
CRL-7653	Hs 906(A).T	melanoma	skin
CRL-7654	Hs 906(B).T	melanoma	skin
CRL-7658	Hs 908.Sk	melanoma	skin
CRL-7686	Hs 936.T	melanoma	skin
CRL-7687	Hs 936.T(C1)	melanoma	skin
CRL-7690	Hs 939.T	melanoma	skin
CRL-7898	A101D	melanoma	skin
CRL-7904	A375	melanoma	skin
CRL-9446	CHL-1	melanoma	skin
CRL-9451	CHL-2	melanoma	skin
CRL-9607	HMCB	melanoma	skin
HTB-140	Hs 294T	melanoma	skin
HTB-114	SK-UT-1	mesodermal tumor (mixed); consistent with leiomyosarcoma	uterus
HTB-115	SK-UT-1B	mesodermal tumor (mixed); consistent with leiomyosarcoma	uterus; endometrium
CRL-5820	NCI-H28	mesothelioma	pleural effusion
CRL-5915	NCI-H2052	mesothelioma	pleural effusion
CRL-5917	NCI-H2066	mixed; small cell lung cancer; adenocarcinoma; squamous cell carcinoma	lung

ATCC No	Name	Cancer Type	Tissue Source
CRL-5938	NCI-H2286	mixed; small cell lung cancer; adenocarcinoma; squamous cell carcinoma	lung
CRL-1848	NCI-H292	mucoepidermoid pulmonary carcinoma	lung
CRL-8644	HuNS1	myeloma	lymphoblast
CCL-127	IMR-32	neuroblastoma	brain; neuroblast
CRL-2137	SK-N-AS	neuroblastoma	brain; neuroblast
CRL-2142	SK-N-FI	neuroblastoma	brain; neuroblast
CRL-2149	SK-N-DZ	neuroblastoma	brain; neuroblast
CRL-2266	SH-SY5Y	neuroblastoma	brain
CRL-2267	BE(2)-M17	neuroblastoma	brain
CRL-2268	BE(2)-C	neuroblastoma	brain
CRL-2270	MC-IXC	neuroblastoma	brain
CRL-2271	SK-N-BE(2)	neuroblastoma	brain
CRL-2273	CHP-212	neuroblastoma	brain
HTB-11	SK-N-SH	neuroblastoma	brain
CRL-5893	NCI-H1770	neuroendocrine carcinoma	lymph node
HTB-10	SK-N-MC	neuroepithelioma	brain
HTB-148	H4	neuroglioma	brain
CRL-7434	Hs 697.Ln	non-caseating granuloma	lymph node
CRL-10236	10C9	non-Hodgkin's lymphoma	lymph node; B lymphocyte
CRL-2261	RL	non-Hodgkin's lymphoma	ascites; B lymphoblast
CRL-2408	NK-92MI	non-Hodgkin's lymphoma, malignant; transfected with human IL-2 cDNA	lymphoblast
CRL-2073	NCCIT	nullipotent embryonal carcinoma; teratocarcinoma	
CRL-7609	Hs 871.T	osteoblastoma	bone
CRL-11226	143.98.2	osteosarcoma	
CRL-1423	G-292, clone A141B1	osteosarcoma	bone
CRL-1427	MG-63	osteosarcoma	bone
CRL-1543	HOS	osteosarcoma	bone
CRL-1544	KHOS/NP (R-970-5)	osteosarcoma	bone
CRL-1545	KHOS-240S	osteosarcoma	bone
CRL-1546	KHOS-321H	osteosarcoma	bone
CRL-1547	MNNG/HOS (CI #5)	osteosarcoma	bone
CRL-7005	Hs 3.T	osteosarcoma	bone
CRL-7023	Hs 39.T	osteosarcoma	bone
CRL-7060	Hs 88.T	osteosarcoma	bone; connective tissue
CRL-7134	Hs 184.T	osteosarcoma	bone
CRL-7140	Hs 188.T	osteosarcoma	bone
CRL-7263	Hs 387.T	osteosarcoma	bone
CRL-7444	Hs 704.T	osteosarcoma	bone
CRL-7448	Hs 707(A).T	osteosarcoma	bone
CRL-7471	Hs 735.T	osteosarcoma	bone
CRL-7489	Hs 755(B).T	osteosarcoma	bone
CRL-7511	Hs 781.T	osteosarcoma	bone
CRL-7521	Hs 792(B).T	osteosarcoma	bone
CRL-7537	Hs 805.T	osteosarcoma	bone
CRL-7543	Hs 811.T	osteosarcoma	bone
CRL-7577	Hs 845.T	osteosarcoma	bone
CRL-7595	Hs 860.T	osteosarcoma	bone
CRL-7600	Hs 864.T	osteosarcoma	bone; connective tissue
CRL-7602	Hs 866.T	osteosarcoma	bone
CRL-7606	Hs 870.T	osteosarcoma	bone
CRL-7622	Hs 888.T	osteosarcoma	bone
CRL-7626	Hs 889.T	osteosarcoma	bone
CRL-7628	Hs 890.T	osteosarcoma	bone
CRL-7631	Hs 894(A).T	osteosarcoma	bone
CRL-7632	Hs 894(B).T	osteosarcoma	bone
CRL-7633	Hs 894(C).T	osteosarcoma	bone
CRL-7634	Hs 894(D).T	osteosarcoma	bone
CRL-7642	Hs 899(A).T	osteosarcoma	bone

ATCC No	Name	Cancer Type	Tissue Source
CRL-7643	Hs 899(B).T	osteosarcoma	bone
CRL-7644	Hs 899(C).T	osteosarcoma	bone
CRL-7645	Hs 899(D)	osteosarcoma	bone
CRL-7765	TE 417.T	osteosarcoma	bone
CRL-7766	TE 418.T	osteosarcoma	bone
CRL-7780	TO 203.T	osteosarcoma	bone
CRL-7783	HT 728.T	osteosarcoma	bone
CRL-7823	Hs 14.T	osteosarcoma	bone
CRL-7939	SaOS	osteosarcoma	bone
CRL-7943	T1-73	osteosarcoma	bone
CRL-8303	143B	osteosarcoma	bone
CRL-8304	143B PML BKTG	osteosarcoma	bone
HTB-85	Saos-2	osteosarcoma	bone
HTB-96	U-2 OS	osteosarcoma	bone
CRL-2098	SJSA-1	osteosarcoma; multipotential sarcoma	bone
CRL-7677	Hs 925.T	pagetoid sarcoma	skin
CRL-5819	NCI-H1404	papillary adenocarcinoma	lung
CRL-7573	Hs 840.T	papilloma	pharynx
CCL-155	RPMI 8226	plasmacytoma; myeloma	B lymphocyte
CRL-8033-1	SKO-007	plasmacytoma; myeloma	B lymphocyte
CRL-8033-2	SKO-007	plasmacytoma; myeloma	B lymphocyte
CRL-8083	MC/CAR	plasmacytoma; myeloma	B lymphocyte
CRL-8147	MC/CAR-Z2	plasmacytoma; myeloma	B lymphocyte
TIB-196	U266B1	plasmacytoma; myeloma	B lymphocyte
CRL-9068	NCI-H929	plasmacytoma; myeloma	bone marrow; B lymphocyte
CRL-2237	SNU-387	pleomorphic hepatocellular carcinoma	liver
CRL-2238	SNU-423	pleomorphic hepatocellular carcinoma	liver
CRL-5904	NCI-H1915	poorly differentiated carcinoma	brain
CRL-7753	TE 161.T	possible Burkitt's lymphoma	lymph node
CRL-2335	HCC1806	primary acantholytic squamous cell carcinoma	mammary gland; breast
CRL-1902	UACC-893	primary ductal carcinoma	mammary gland; breast
CRL-2314	HCC38	primary ductal carcinoma	mammary gland; breast; duct
CRL-2315	HCC70	primary ductal carcinoma	mammary gland; breast; duct
CRL-2316	HCC202	primary ductal carcinoma	mammary gland; breast; duct
CRL-2321	HCC1143	primary ductal carcinoma	mammary gland; breast; duct
CRL-2322	HCC1187	primary ductal carcinoma	mammary gland; breast; duct
CRL-2324	HCC1395	primary ductal carcinoma	mammary gland; breast
CRL-2326	HCC1419	primary ductal carcinoma	mammary gland; breast
CRL-2329	HCC1500	primary ductal carcinoma	mammary gland; breast; duct
CRL-2331	HCC1599	primary ductal carcinoma	mammary gland; breast; duct
CRL-2336	HCC1937	primary ductal carcinoma	mammary gland; breast; duct
CRL-2340	HCC2157	primary ductal carcinoma	mammary gland; breast
CRL-2343	HCC2218	primary ductal carcinoma	mammary gland; breast; duct
CRL-11730	TOV-21G	primary malignant adenocarcinoma	ovary
CRL-11731	TOV-112D	primary malignant adenocarcinoma	ovary
CRL-2380	MPanc-96	primary malignant adenocarcinoma	pancreas
CRL-2330	HCC1569	primary metaplastic carcinoma	mammary gland; breast
CCL-105	SW-13	primary small cell carcinoma	adrenal gland; cortex
CRL-1231	Sar Nis	pseudoachondroplasia (autosomal dominant)	skin
CRL-1611	ACHN	renal cell adenocarcinoma	kidney
CRL-1932	786-O	renal cell adenocarcinoma	kidney
CRL-1933	769-P	renal cell adenocarcinoma	kidney
CRL-1440	G-402	renal leiomyoblastoma	kidney
CRL-7678	Hs 926.T	renal rhabdomyosarcoma	kidney
CRL-7239	Hs 324.T	reticulum cell sarcoma	lymph node
HTB-169	WERI-Rb-1	retinoblastoma	eye; retina
HTB-18	Y79	retinoblastoma	eye; retina
CRL-7713	130T	rhabdomyosarcoma	connective and soft tissue
CRL-7726	T 174	rhabdomyosarcoma	connective and soft tissue
CRL-7763	TE 381.T	rhabdomyosarcoma	connective and soft tissue

ATCC No	Name	Cancer Type	Tissue Source
CRL-7767	TE 441.T	rhabdomyosarcoma	connective tissue
CRL-7774	TE 617.T	rhabdomyosarcoma	connective tissue
CRL-7862	Hs 729.T	rhabdomyosarcoma	connective tissue
CCL-136	RD	rhabdomyosarcoma	muscle
CRL-1598	A-673	rhabdomyosarcoma	muscle
CRL-2061	SJRH30	rhabdomyosarcoma	muscle
CRL-7752	TE 159.T	rhabdomyosarcoma	unknown
CRL-7900	A204	rhabdomyosarcoma	unknown
HTB-153	Hs 729	rhabdomyosarcoma	unknown
HTB-82	A-204	rhabdomyosarcoma	unknown
CRL-7910	A673	rhabdomyosarcoma or undifferentiated carcinoma	unknown
CRL-7732	TE 76.T	sacroccygeal teratoma	bone
CRL-7746	TE 130.T	sacroccygeal teratoma	bone
HTB-86	SK-ES-1	sarcoma (anaplastic osteosarcoma or Ewing's sarcoma)	bone
CRL-7037	Hs 57.T	sarcoma or lymphoma	lung
CRL-7482	Hs 742.T	scirrhous adenocarcinoma	mammary gland; breast
CRL-7800	Hs 444(B).T	seminoma	testis
CRL-7030	Hs 51.T	spindle cell sarcoma	connective and soft tissue
CRL-7085	Hs 132.T	spindle cell sarcoma	connective tissue
CRL-10302	SW756	squamous cell carcinoma	cervix
HTB-35	SiHa	squamous cell carcinoma	cervix
CRL-5928	NCI-H2170	squamous cell carcinoma	lung
HTB-182	NCI-H520	squamous cell carcinoma	lung
HTB-59	SW 900	squamous cell carcinoma	lung
HTB-58	SK-MES-1	squamous cell carcinoma	lung; pleural effusion
CCL-30	RPMI 2650	squamous cell carcinoma	nasal septum; pleural effusion
HTB-43	FaDu	squamous cell carcinoma	pharynx
HTB-107	SW579	squamous cell carcinoma	thyroid
CRL-1623	SCC-15	squamous cell carcinoma	tongue
CRL-1624	SCC-4	squamous cell carcinoma	tongue
CRL-1628	SCC-25	squamous cell carcinoma	tongue
CRL-1629	SCC-9	squamous cell carcinoma	tongue
CRL-2095	CAL 27	squamous cell carcinoma	tongue
HTB-3	SCaBER	squamous cell carcinoma	urinary bladder
HTB-117	SW 954	squamous cell carcinoma	vulva
CRL-5826	NCI-H226	squamous cell carcinoma; mesothelioma	lung; pleural effusion
CRL-7289	Hs 416.T	squamous papilloma	skin
CRL-7440	Hs 701.T	synovial sarcoma	connective tissue
HTB-93	SW 982	synovial sarcoma	synovium
CRL-1572	PA-1	teratocarcinoma	ovary
CRL-7886	Hs 789.T	transitional cell carcinoma	ureter
CRL-7882	Hs 769.T	transitional cell carcinoma	urethra
CRL-1749	UM-UC-3	transitional cell carcinoma	urinary bladder
CRL-2169	SW 780	transitional cell carcinoma	urinary bladder
HTB-1	J82	transitional cell carcinoma	urinary bladder
HTB-4	T24	transitional cell carcinoma	urinary bladder
HTB-5	TCCSUP	transitional cell carcinoma	urinary bladder
HTB-2	RT4	transitional cell papilloma	urinary bladder
CRL-1649	MC116	undifferentiated lymphoma	ascites; B lymphocyte
CRL-1976	MES-SA	uterine sarcoma	uterus
CRL-2274	MES-SA/MX2	uterine sarcoma	uterus
CRL-1977	MES-SA/Dx5	uterine sarcoma; multiple drug resistant	uterus
CRL-7102	Hs 156.T	xanthogranuloma	skin

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